

AN APPARATUS FOR MEASURING RADIAL DISPLACEMENT OF A WHEEL

ABSTRACT OF THE DISCLOSURE

5 An apparatus for measuring radial displacement of a wheel having upper and lower beads, i.e. beads, includes a mount assembly for securing and rotating the wheel.

 A first element is pivotably connected to a second element for simultaneously engaging the beads. The first element is moved with respect to the axis through pivoting motion of the second element in response to the radial displacements of the beads to generate a
10 signal. The first element is operably connected to a first sensor for measuring the radial displacements of the beads. A tool for marking the wheel is operably connected to the first element. A controller is electronically connected to the mount assembly, the first element, and the first sensor, and the tool for integrating the signal and marking the wheel between the radial displacements of the beads.